

REMARKS

Reconsideration and allowance of this application are respectfully requested in light of the above amendments and the following remarks.

Claims 1-7 have been canceled in favor of new claims 8-13. Support for the subject matter of the new claims is provided at least in the original claims, Fig. 1A, and paragraphs 58 and 81 of the specification.

Claims 1-7 were rejected, under 35 USC §102(b), as being anticipated by Hideaki et al. (EP 1 168 658). To the extent these rejections may be deemed applicable to new claims 8-13, the Applicants respectfully traverse.

Claim 8 defines a mobile radio apparatus that supplies power selectively to a second flat conductor or a third flat conductor at a different phase from the power supplied to a first flat conductor. The second and third flat conductors are disposed side by side in a width direction of the mobile radio apparatus case and facing the plane of a first flat conductor. The claimed subject matter supports an advantage of controlling antenna directivity away from a user's body so as to achieve high antenna radiation efficiency and high effective gain (see specification page 4, lines 11-19).

Hideaki discloses, in Fig. 4, a mobile telephone 3 having three antennas 1, 2, and 11 disposed orthogonally to each other (see paragraph 40, lines 1-3 of Hideaki). The plane of polarization of the three antennas can be controlled to have vertical polarization, with respect to the land surface, regardless of the orientation of the mobile telephone (see paragraph 40, lines 3-9).

However, Hideaki does not disclose the Applicants' claimed arrangement of the three flat conductors, such that second and third flat conductors are disposed side by side in a width direction of a mobile radio apparatus case and facing the plane of a first flat conductor. Moreover, although Hideaki does disclose adjusting the weighting of the distribution ratio of power fed to three antennas and controls the direction of main polarization, Hideaki fails to disclose supplying power selectively to a second flat conductor or a third flat conductor at a different phase from the power supplied to a first flat conductor, so as to control antenna directivity.

To control antenna directivity, it is necessary to place antennas having the same polarization and a half wavelength in parallel and to change the phase power supplied to the respective antennas. Moreover, there are requirements concerning the positional arrangement of the antennas. For example, to control directivity in a crosswise direction, antennas need to be placed in a crosswise direction, and to control directivity in a front-back direction, antennas need to be placed in a front-back direction.

Claim 8 recites that two antenna elements, a second flat conductor and a third flat conductor, are placed in a widthwise direction of the case of a mobile radio apparatus and a first flat conductor is placed in a thickness direction of the case with respect to the two other conductors. As a result of this arrangement, the claimed mobile radio apparatus satisfies the requirements for controlling directivity in a widthwise direction and a thickness direction of the case.

By contrast, Hideaki discloses orienting three antennas orthogonal to each other and fails to disclose the required arrangement of antennas for controlling directivity. Therefore, even if

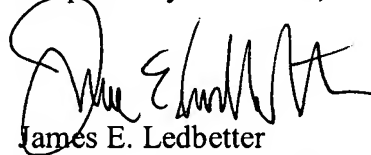
power is supplied to one of Hideaki's three antennas at a different phase than that supplied to another antenna, it is technically impossible to control directivity with Hideaki's antenna arrangement.

Accordingly, the Applicants respectfully submit Hideaki does not anticipate the subject matter defined by claim 8. Therefore, allowance of claim 8 and all claims dependent therefrom is warranted.

In view of the above, it is submitted that this application is in condition for allowance, and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,



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